

CURRICULUM VITAE

PERSONAL INFORMATION

First name(s) / SURNAME(s)

Komninos ANGELAKOGLU

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Nationality

Hellenic

Date of birth

14/10/1985

Gender

Male

EDUCATION

• 2008-Today

PhD Candidate

Democritus University of Thrace

Department of Production Engineering and Management

Thesis Title: *“Development of a methodological framework for assessing the environmental sustainability of industrial facilities and procedures”*

Supervisor: Ass. Prof. Gaidajis Georgios

Brief Description: The aim of the specific doctoral dissertation is to develop a methodological framework for efficiently assessing the environmental sustainability of industrial facilities. The method is based on the analysis of basic components of the examined system, i.e, the quantities of the incoming materials and outgoing wastes, their hazardousness and scarcity, the utilization of water and energy resources, and the biodiversity. The developed method is expected to provide both qualitative and quantitative assessment of the environmental performance of the facility in a broad time scales (past-present-future) and will be easily applicable from non environmental experts. Its implementation is expected to lead to an improved understanding of the environmental performance of the facility examined and more importantly identify the areas of significant environmental concern.

• 2003-2008

Production and Management Engineer, Dip. Eng.

Democritus University of Thrace

Department of Production Engineering and Management

Grade: 8.17/10

Thesis Title: *“Indoor air quality in terms of particulate matter – University classrooms and relevant areas Case Study” (Grade 10/10 – Distinction)*

Supervisor: Ass. Prof. Gaidajis Georgios

Brief Description: The specific thesis aimed to assess the indoor air quality in terms of particulate matter in academic environment. In that aspect the mass concentrations of coarse (PM₁₀) and fine (PM_{2.5}) particulate matter were measured in different classrooms and relevant indoors areas of Democritus University, School of Engineering, Xanthi, with portable aerosol monitoring equipment. Two sampling campaigns were conducted in different seasons. The results indicated that the average concentrations in classrooms ranged from 32-188 µg/m³ and 25-151 µg/m³ for PM₁₀ and PM_{2.5} respectively. High measurements with concentration levels above 300 µg/m³ were usually recorded indicating the significance of student trespassing and occasional smoking in the deterioration of indoors air quality.

• 2000-2003

3^o Lyceum of Kavala, Greece

Higher Secondary Education Grade: 18.2/20 (Distinction)

RESEARCH INTERESTS

My research interests extend to the principles and tools of Industrial Ecology, Life Cycle Assessment, Sustainability Assessment and Indoors Air Pollution. More specifically I have research experience in the following research fields:

- Tools and methods for assessing the environmental sustainability of industrial and regional systems.
- Development and analysis of composite indicators for sustainability assessment.
- Carbon footprint estimations.
- Screening Life Cycle case studies.
- Environmental impact assessment of various systems with the application of Life Cycle impact assessment methods (e.g. Ecoindicator, ReCiPe, IMPACT2002).
- Energy audits and environmental assessment of buildings.
- Indoor air quality in terms of particulate matter.
- Integration of sustainability in schools of engineering.

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE(S)

GREEK

OTHER LANGUAGE(S)

- Understanding
- Writing
- Speaking

ENGLISH (FCE CAMBRIDGE GRADE A, CCE MICHIGAN, CERTIFICATE OF PROFICIENCY IN ENGLISH MICHIGAN).

Proficient User

Proficient User

Proficient User

SOCIAL SKILLS AND COMPETENCES

Co-operative through participation in many research teams, team publications in scientific journals.

Communicational skills, from participating in many international conferences many of which as a presenter.

Ability to coordinate groups and accomplish projects.

Organized.

Easily adaptive to new environments.

COMPUTER SKILLS AND COMPETENCES

Experienced in computer hardware installation and management and software applications.

Excellent use of MS Windows™ 2000/XP/VISTA/7.

Excellent use of Ms Office™ (Excel™, Word™, PowerPoint™, Access™ etc) and Internet Explorer.

Experienced in the use of: MS Visio™, Adobe Acrobat Reader™, Autodesk AutoCAD™ (Computer Aided Design Program), SimaPro™ (Life Cycle Assessment software), Eco-it™ and energy audit software.

Ability of data-mining over the Internet.

Experienced in the use of information systems software (e.g. SAP, Tiny ERP).

ADDITIONAL SKILLS AND COMPETENCES

- Life Cycle Assessment of various systems (products and procedures).
- Evaluation of the sustainability of industrial facilities.
- Environmental technologies.
- Environmental measurements – Indoor air quality sampling.
- Production optimization.
- Systems engineering.
- Renewable Energy Systems.
- Information systems management.
- Knowledge of marketing/management issues and capability of conducting market investigation.

RESEARCH AND TEACHING EXPERIENCE

- Lectures (5-hour) during the core subject “Environmental Technology” taught to the 4th year students of the Department of Production Engineering and Management, Democritus University of Thrace. The title of the lecture is “An overview of the Industrial Ecology principles and tools”.
- Lectures (3-hour) regarding Life Cycle Assessment and the training of relative LCA software to the postgraduate students of the MSc program of the department of Environmental Engineering, Democritus University of Thrace.
- Instructor of the seminar entitled “Application of European Methodologies and software for the amelioration of the energy efficiency of buildings” for the program of Technical Chamber of Greece “e-engineers: Training engineers in new computer science technologies”.

- Participation in the submission of the research proposals entitled:

HrakleitosII: Development of a methodological framework for the assessment of the environmental sustainability of industrial facilities.

Thalis: Sustainable management of e-waste.

- Member of the research team in the following research programs:

1/1/2012-Today	Environmental Assessment of Industrial Systems and Processes, funded by TSMEDE.
22/3/2012-22/8/2012	Development of a Sustainable Energy Action Plan for the municipality of Kavala, funded by the municipality of Kavala.
15/3/2012-15/8/2012	Estimation of the Carbon Footprint of the municipality of Kavala, Greece, funded by the municipality of Kavala.
1/7/2011-30/9/2011	Assessment of the environmental impact of the gold project in Sapes area, Komotini, Greece, funded by the Thrace Minerals S.A.
8/2/2011-25/3/2011	Assessment of the environmental impact of the gold project in Perama area, Alexandroupoli, Greece, funded by the Thracian Gold Mining S.A.
1/1/2010-1/8/2010	Development of a methodological framework for the assessment of the environmental sustainability of mining facilities, funded by S&B Industrial Minerals S.A.
2009-2011	Indoor air quality in terms of fine particulate matter, funded by TSMEDE.

PUBLICATIONS

PUBLICATIONS IN INTERNATIONAL SCIENTIFIC JOURNALS (PEER-REVIEWED)

1. Botsaris, P.N., Gaidajis, G., Venardos, P. and Angelakoglou, K. (2012), Issues regarding wind turbines positioning: A benchmark study with the application of the life cycle assessment approach, *Journal of Green Energy (under review)*.
2. Gaidajis, G. Kazakidis V. and Angelakoglou, K. (2012), Evaluation of Environmental and Social Parameters of a gold-mining project at the pre-feasibility stage: A case study, *Journal of Cleaner Production (under review)*.
3. Gaidajis, G., Angelakoglou, K. and Dimitriou M. (2012), Comparative evaluation of flat roof thermal systems: A life cycle analysis based approach, *European Journal of Environmental and Civil Engineering (under review)*.
4. Gaidajis, G. and Angelakoglou, K. (2012), Ambient Air Quality at the Wider Area of a Mining Facility in Stratoni, Chalkidiki, Greece, *Journal of Environmental Science and Health, Part A*, Vol. 47 (12), 2012.
5. G. Gaidajis, K. Angelakoglou and D. Aktsoglou (2012), "Sustainable Development integration in Greek school of engineering – current situation, experiences and actions", *International Journal of Sustainable Engineering*, Vol. 5 (2), 2012.
6. Gaidajis, G. and Angelakoglou, K. (2012), Environmental performance of renewable energy systems with the application of Life Cycle Assessment: a Multi-Si photovoltaic module case study, *Civil Engineering and Environmental Systems, Special Issue*, Vol. 29 (4), 2012.
7. G. Gaidajis, and K. Angelakoglou (2012), "Indoor air quality in terms of mass concentrations of particulate matter in areas of massive public congregation", *Fresenius Environmental Bulletin*, Issue 1/8/2012.
8. G. Gaidajis, K. Angelakoglou, D. Aktsoglou (2012), "Assessing the Global Warming Potential of a typical office-workstation using Life Cycle Assessment", *Fresenius Environmental Bulletin*, Issue 1/8/2012.
9. G. Gaidajis, and K. Angelakoglou (2011), "Screening life cycle assessment of an office used for academic purposes", *Journal of Cleaner Production*, Vol. 19, pp. 1639-1646, 2011.
10. G. Gaidajis, K. Angelakoglou, P. Botsaris and F. Fillipidou (2011), "Analysis of the recycling potential of used automotive oil filters using the Life Cycle Assessment approach" *Resources, Conservation and Recycling*, Vol. 55, pp. 986-994, 2011.
11. G. Gaidajis, and K. Angelakoglou (2011) "Assessment of the environmental impacts deriving from the life cycle of a typical solar water heater", *JESTR*, Vol. 4(1), pp. 92-95, 2011.
12. G. Gaidajis, K. Angelakoglou, D. Aktsoglou (2010), "E-waste: Environmental problems and current management", *JESTR*, Vol. 3(1), pp. 193-199, 2010. [cited by 5]
13. F. Filippidou, P. Botsaris, K. Angelakoglou and G. Gaidajis (2010), "A comparative analysis of a CdTe and a Poly-Si photovoltaic module installed in Northeastern Greece", *Applied Solar Energy*, Vol. 46, No. 3, pp. 182-191, 2010.
14. G. Gaidajis and K. Angelakoglou (2009), "Indoor air quality in university classrooms and relative environment in terms of mass concentrations of particulate matter", *Journal of Environmental Science and Health*, Vol. A44, No. 12, 2009. [cited by 4]

PUBLICATIONS IN INTERNATIONAL CONFERENCES (PEER-REVIEWED)

1. G. Gaidajis and K. Angelakoglou, Carbon footprint and energy assessment of a medium sized municipality in Greece. CEST 2013, 13th International conference on Environmental Science and Technology, September 5-7, 2013, Athens, Greece (*under review*).
2. G. Gaidajis and K. Angelakoglou, Mining Industry: From environmental sustainability reporting to performance assessment. 23rd World Mining Congress, August 11-15, 2013, Montreal, Canada (*under review*).
3. G. Gaidajis and Angelakoglou K. (2012), Relative Contribution of the Transportation Sector to the Carbon Footprint of an Urban Centre – A Medium Sized Greek City Case

- Study, TAP 2012 Conference, Thessaloniki, Greece, November 26-27, 2012.
4. G. Gaidajis, K. Angelakoglou and I. Margiolaki (2012), A preliminary assessment of household carbon footprint in Greece, Third international symposium on Green Chemistry for Environment, Health and Development, Skiathos Island, October 3-5, 2012, Greece.
 5. Gaidajis, G. and Angelakoglou, K. (2012), Indoor Concentrations of Particulate Matter in Hospital Environment. Protection and Restoration for the Environments – *PRE11 XI International Conference*, Thessaloniki, Greece July 3-6, 2012.
 6. Gaidajis, G. and Angelakoglou, K. (2012), Environmental Analysis of a 3MW Wind Turbine with the Application of the Life Cycle Assessment. Protection and Restoration for the Environments – *PRE11 XI International Conference*, Thessaloniki, Greece July 3-6, 2012.
 7. Gaidajis G. and Angelakoglou K. (2011), “Development of a holistic tool for assessing the environmental sustainability of mining facilities”, 5th International Conference Sustainable Development in the minerals industry, SDIMI 2011, June 14-17, Aachen, Germany.
 8. Botsaris P., Angelakoglou K., Gaidajis G. and Tsanakas J. (2011), “Lifecycle costs and environmental life cycle analysis of solar water heaters in Greece”, 2nd International Congress on Condition Monitoring and Diagnostics Engineering Management, May 30 – June 1, 2011, Stavanger, Norway.
 9. Gaidajis G. and Angelakoglou K. (2011), “Environmental assessment of a poly-Si photovoltaic panel”, 3rd International Conference on Environmental Management, Engineering, Planning and Economics (CEMEPE 2011) & SECOTOX Conference, June 19-24, 2011, Skiathos, Greece.
 10. Gaidajis G. and Angelakoglou K. (2011), “Environmental analysis of a typical solar water heater with the application of Life Cycle Assessment software”, 2nd International Exergy, Life Cycle Assessment, and Sustainability Workshop & Symposium, June 19-21, Nisyros, Greece.
 11. Gaidajis, G., Angelakoglou, K. and Aktsoglou, D. (2010), “Incorporating Industrial Ecology as an enhancement tool for teaching Sustainable Development to Engineers - current experience from Greece”, *5th International Engineering Education in Sustainable Development Conference*, 19-22 of September, 2010, Göteborg, Sweden.
 12. Gaidajis, G., Angelakoglou, K. and Aktsoglou D. (2010), “Integration of Sustainable Development in Engineering Universities in Greece”, EESD 2010, *5th International Engineering Education in Sustainable Development Conference*, 19-22 of September, 2010, Göteborg, Sweden.
 13. Gaidajis G. and Angelakoglou, K. (2010), “Indoor air quality in terms of mass concentrations of particulate matter in areas of massive public congregation”, *Second International Symposium on Green Chemistry for Environment and Health*, September 27-29, 2010, Mykonos, Greece.
 14. Angelakoglou, K., Aktsoglou, D. and Gaidajis, G. (2010), “Assessing the Global Warming Potential of a typical office-workstation using Life Cycle Assessment”, *Second International Symposium on Green Chemistry for Environment and Health*, September 27-29, 2010, Mykonos, Greece.
 15. G. Gaidajis and K. Angelakoglou, “Recovery of waste lubricant oil contained in used automotive filters” (2009), 3rd International Conference “Towards Sustainable Development: Assessing the footprint of resource utilization & Hazardous Waste Management”, AMIREG 2009, September 7-9, Athens 2009.
 16. G. Gaidajis and K. Angelakoglou (2009), “Systemic thinking and industrial ecology – the concept of eco-industrial parks”, 5th National & International HSSS conference “*From Systemic Thinking to Systems Design and Systems Practice*”, June 24-27, 2009, Xanthi, Greece.
 17. G. Gaidajis and K. Angelakoglou (2009), “Systems thinking and environmental assessment of products – Using the Life Cycle Assessment (LCA) approach”, HSSS conference “*From Systemic Thinking to Systems Design and Systems Practice*”, June 24-27, 2009, Xanthi, Greece.

18. G. Gaidajis and K. Angelakoglou (2009), "Indoor mass concentrations of particulate matter in university environment", 11th International Conference on Environmental Science and Technology, September 3-5, Chania, Greece 2009.
19. G. Gaidajis, K. Angelakoglou (2008), "Air quality in university classrooms - The impact of fine particulate matter", Proceedings, "4th International Conference on Ecological Protection of the Planet Earth: Environment, Maritime Policies & Energy Issues in Black Sea", June 12-15, 2008, Trabzon, Turkey.

PUBLICATIONS IN NATIONAL SCIENTIFIC JOURNALS (PEER-REVIEWED)

1. Gaidajis G., Angelakoglou K. and Fotopoulou S., (2010), Indoor concentrations of particulate matter – a case study in indoor areas of massive congregation, Journal *hygeia@ergasia*, Vol. 3, pp 207-218, Hellenic society of (in Greek)

PUBLICATIONS IN NATIONAL CONFERENCES (PEER-REVIEWED)

1. Gaidajis G. and Angelakoglou K. (2011), Methods for assessing the environmental performance-sustainability of industrial processes and facilities, 4th Environmental Conference of Macedonia, Thessalonica, Greece, 18-20 March (in Greek).
2. Gaidajis G. Angelakoglou K and Botsaris P.M. (2009), Evaluation of the environmental and sustainability performance of construction works, 2nd National Conference on environmental policy and management, Mytilene, Greece, 19-21 June 2009 (in Greek).
3. Gaidajis G. and Angelakoglou K. (2009), Development of a methodological framework for the estimation of the environmental sustainability of industrial procedures: mining industry case study, 2nd National Conference on environmental policy and management, Mytilene, Greece, 19-21 June 2009 (in Greek).
4. Gaidajis G., Angelakoglou K. and Aktsoğlu D., (2009), E-waste – environmental problems and current management, 1st Greek-Chinese Forum on the Environment, Technical Chamber of Greece, TEE, 3-4 December 2009, Athens, Greece.

HONORS AND SCHOLARSHIPS

- 2007 Award from the municipality of my birth-town, Kavala, Greece, for my total performance as an undergraduate student in Democritus University of Thrace, Department of Production Engineering and Management.
- 2006-2007 Scholarship and award for my performance during the 4th study year in the Department of Production Engineering and Management from the State Scholarships Foundation of Greece (1st in Class).
- 2005-2006 Scholarship and award for my performance during the 3rd study year in the Department of Production Engineering and Management from the State Scholarships Foundation of Greece (2nd in Class).
- 1997-2003 Awards of excellence for my performance in every class of secondary school.

ADDITIONAL DETAILS

- Registered in the Mechanical and Electrical Engineers Society in Greece.
- Member of the Technical Chamber of Greece (TEE) from 2009.
- Member of the Hellenic Society of Production and Management Engineers from 2009.
- Member of the International Society of Industrial Ecology for Students.
- European Driving License.

GENERAL INTERESTS

Cooking, Sports, Traveling.

Recommendations are available upon request.